

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100825\
 Data File : VL043072.D
 Acq On : 08 Oct 2025 23:16
 Operator : SY/MD
 Sample : Q3320-09
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/09/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 09 01:25:47 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri Oct 03 08:23:34 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.784	49	166750	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	430435	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.875	117	343430	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	255772	10.338	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.400%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	14120	0.502	ppbv	100
3) Chlorodifluoromethane	1.476	51	8082m	0.297	ppbv	
4) Chloromethane	1.531	50	5069	0.494	ppbv	97
9) Propene	1.486	41	8889	0.811	ppbv	84
11) Trichlorofluoromethane	1.874	101	6846	0.237	ppbv	100
13) Ethanol	1.719	45	84535	211.533	ppbv	89
15) Acetone	1.832	43	236631	10.135	ppbv	100
19) Isopropyl Alcohol	1.884	45	735856	65.781	ppbv #	27
20) Methylene Chloride	2.059	84	6793	0.667	ppbv	95
26) Hexane	2.823	57	9729	0.432	ppbv #	39
29) Chloroform	2.845	83	12444	0.324	ppbv	97
34) 2-Butanone	2.557	43	10611	0.363	ppbv	93
35) Carbon Tetrachloride	3.758	117	2739m	0.077	ppbv	
52) Tetrachloroethene	8.212	164	756m	0.050	ppbv	
53) Toluene	6.923	91	12387m	0.298	ppbv	
59) m/p-Xylene	9.529	91	8847m	0.197	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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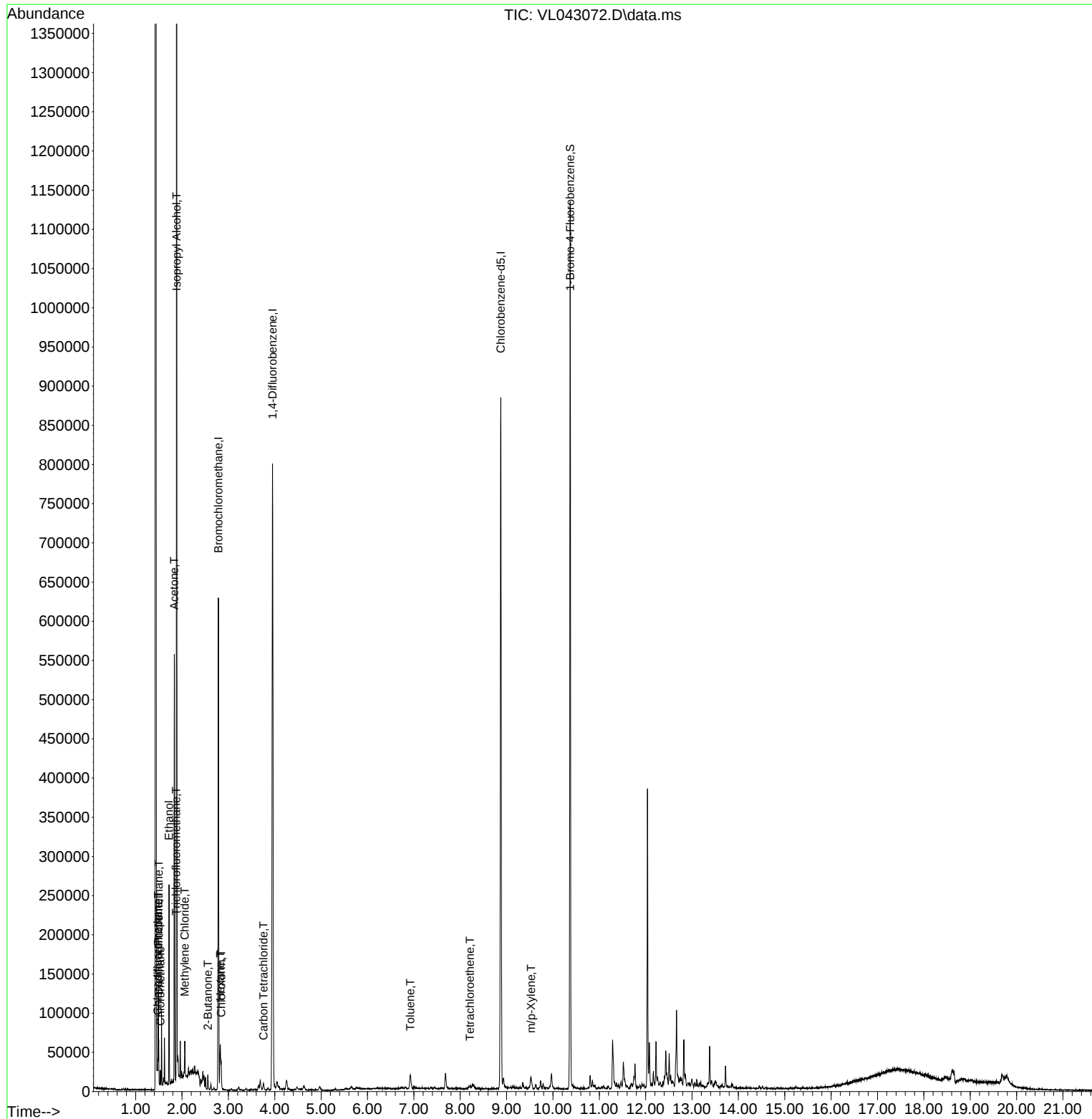
Quant Time: Oct 09 01:25:47 2025

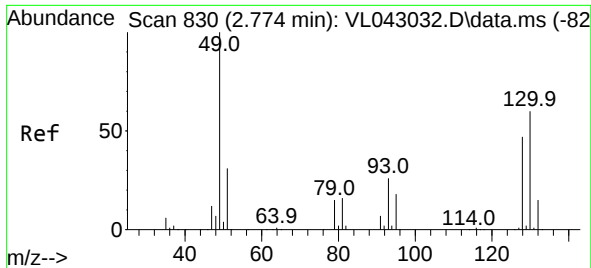
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug

QLast Update : Fri Oct 03 08:23:34 2025

Response via : Initial Calibration





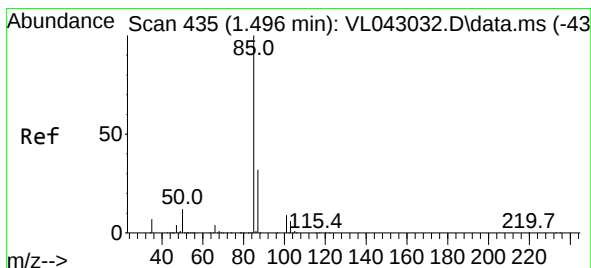
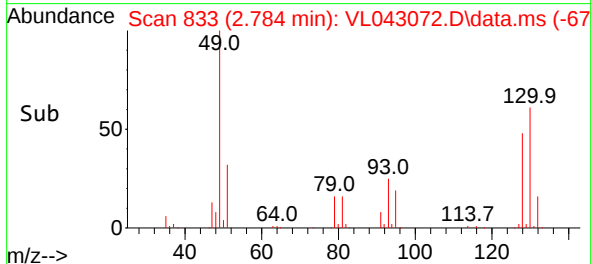
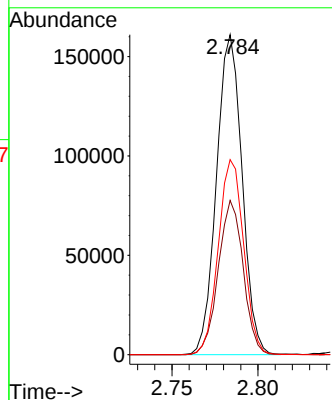
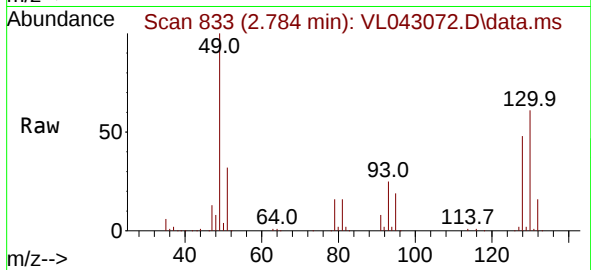
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 811
Delta R.T. 0.010 min
Lab File: VL043072.D
Acq: 08 Oct 2025 23:16

Instrument :
MSVOA_L
ClientSampleId :
IA5

Tgt Ion: 49 Resp: 166750
Ion Ratio Lower Upper
49 100
128 47.0 24.1 72.2
130 60.5 31.4 94.3

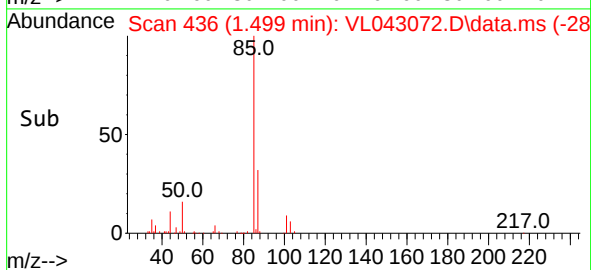
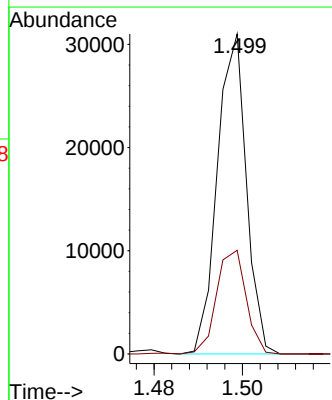
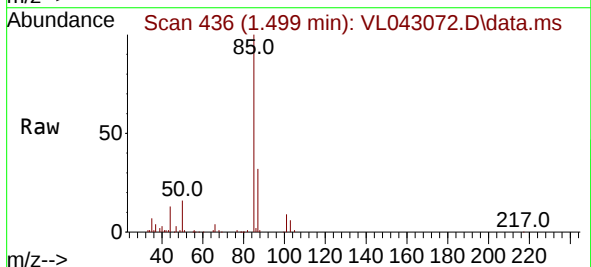
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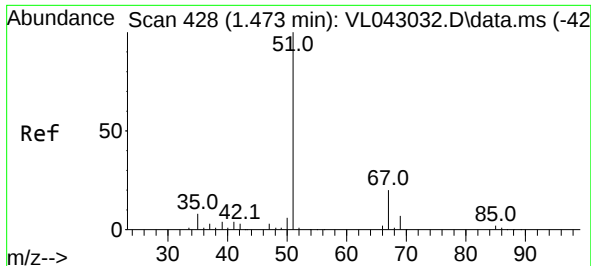
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#2
Dichlorodifluoromethane
Concen: 0.502 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043072.D
Acq: 08 Oct 2025 23:16

Tgt Ion: 85 Resp: 14120
Ion Ratio Lower Upper
85 100
87 32.4 25.8 38.6





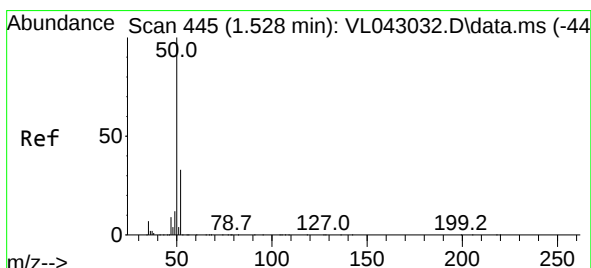
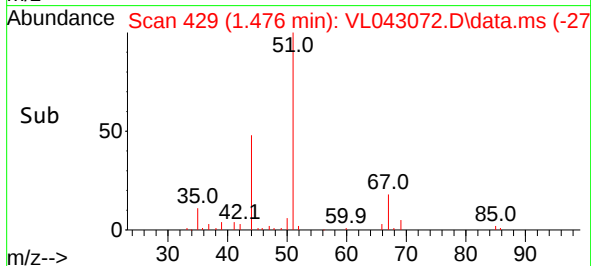
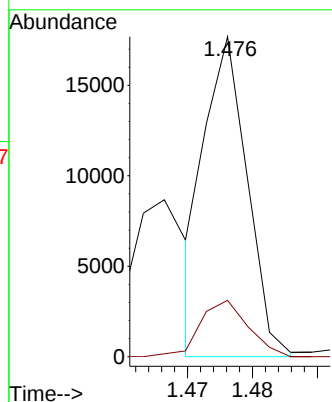
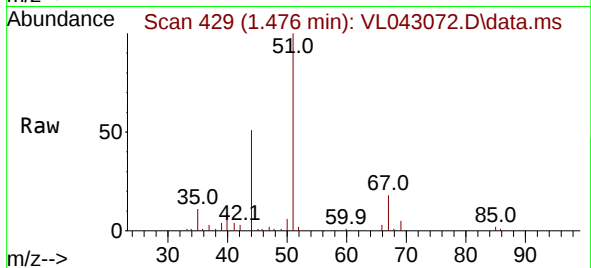
#3
Chlorodifluoromethane
Concen: 0.297 ppbv m
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043072.D
Acq: 08 Oct 2025 23:16

Instrument :
MSVOA_L
ClientSampleId :
IA5

Tgt Ion: 51 Resp: 808
Ion Ratio Lower Upper
51 100
67 1.1 15.1 22.7

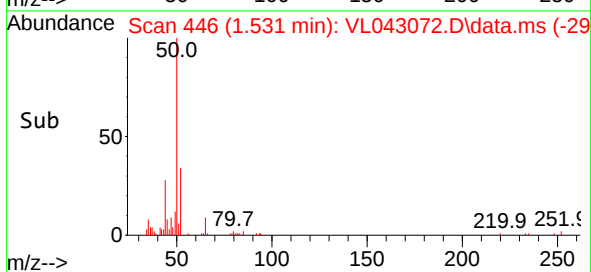
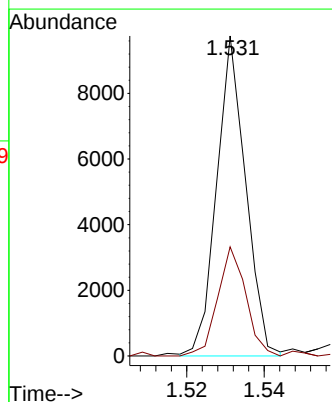
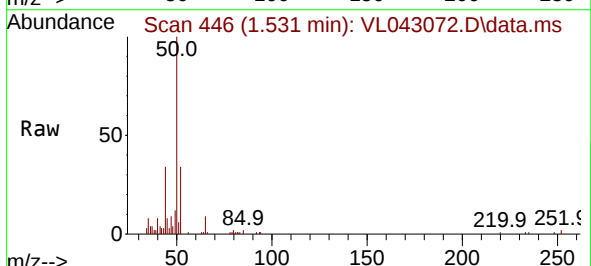
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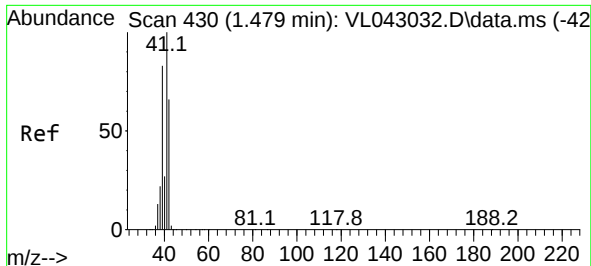
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#4
Chloromethane
Concen: 0.494 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL043072.D
Acq: 08 Oct 2025 23:16

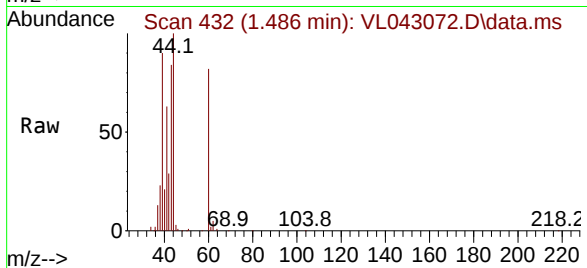
Tgt Ion: 50 Resp: 5069
Ion Ratio Lower Upper
50 100
52 34.3 26.2 39.2





#9
Propene
Concen: 0.811 ppbv
RT: 1.486 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL043072.D
Acq: 08 Oct 2025 23:16

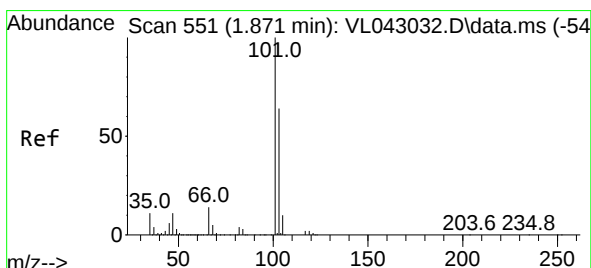
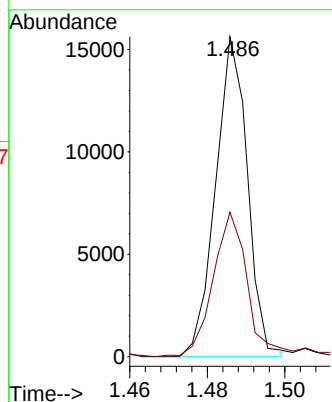
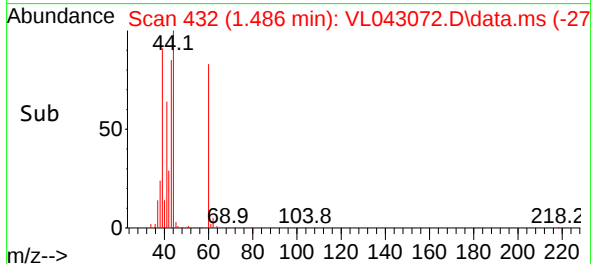
Instrument :
MSVOA_L
ClientSampleId :
IA5



Tgt Ion: 41 Resp: 888
Ion Ratio Lower Upper
41 100
42 54.2 53.3 79.9

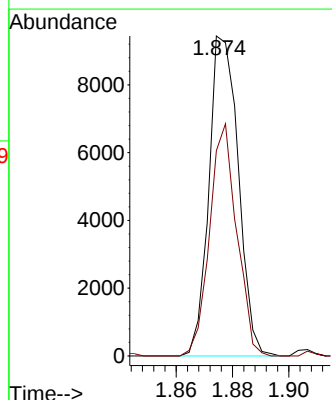
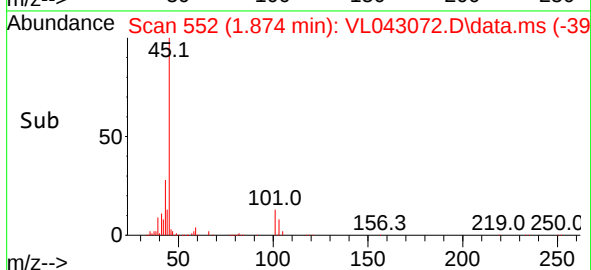
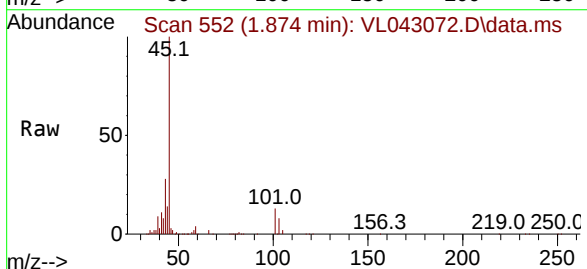
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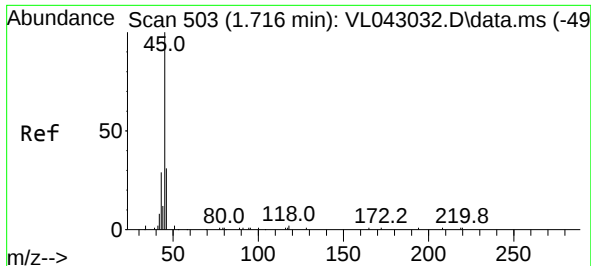
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#11
Trichlorofluoromethane
Concen: 0.237 ppbv
RT: 1.874 min Scan# 552
Delta R.T. 0.003 min
Lab File: VL043072.D
Acq: 08 Oct 2025 23:16

Tgt Ion:101 Resp: 6846
Ion Ratio Lower Upper
101 100
103 64.2 51.1 76.7





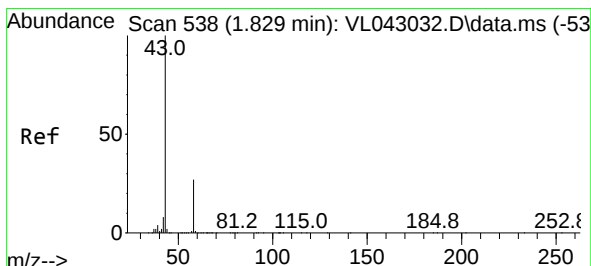
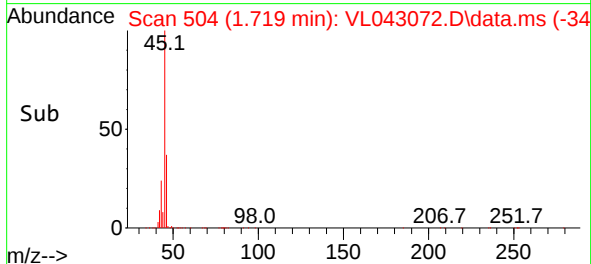
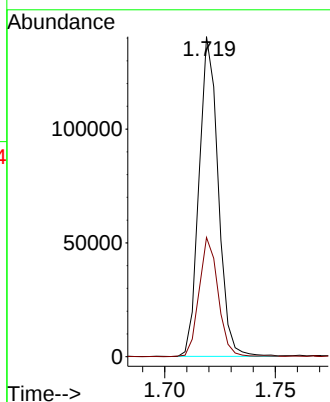
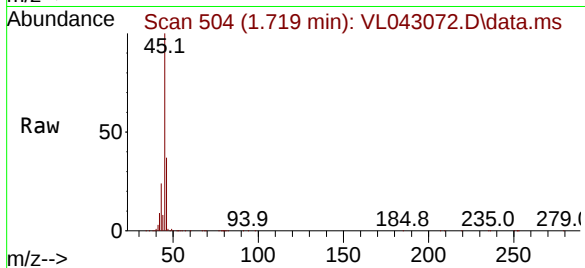
#13
Ethanol
Concen: 211.533 ppbv
RT: 1.719 min Scan# 503
Delta R.T. 0.003 min
Lab File: VL043072.D
Acq: 08 Oct 2025 23:16

Instrument :
MSVOA_L
ClientSampleId :
IA5

Tgt Ion: 45 Resp: 84538
Ion Ratio Lower Upper
45 100
46 37.7 17.8 71.4

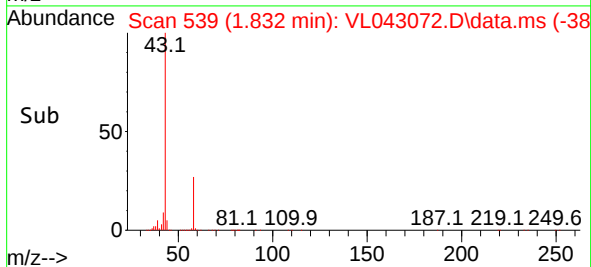
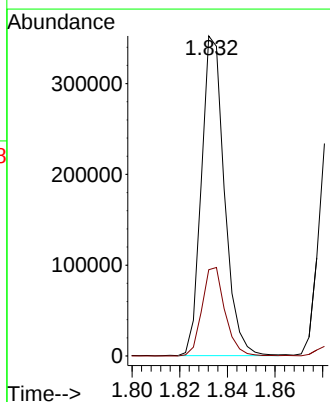
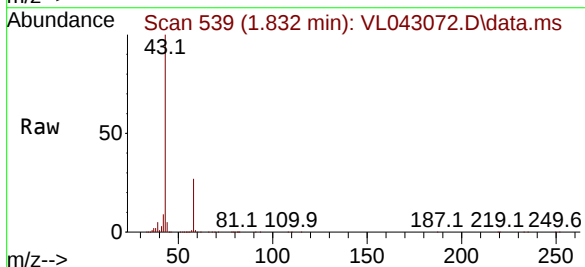
Manual Integrations
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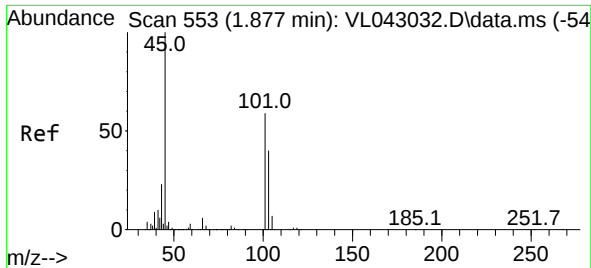
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#15
Acetone
Concen: 10.135 ppbv
RT: 1.832 min Scan# 539
Delta R.T. 0.003 min
Lab File: VL043072.D
Acq: 08 Oct 2025 23:16

Tgt Ion: 43 Resp: 236631
Ion Ratio Lower Upper
43 100
58 27.8 22.2 33.4





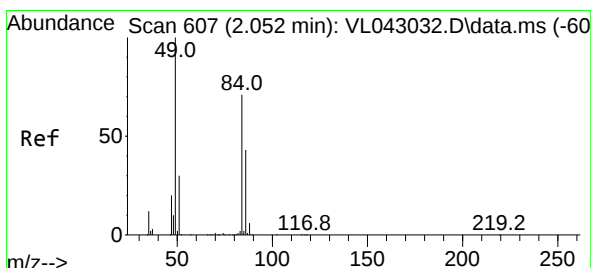
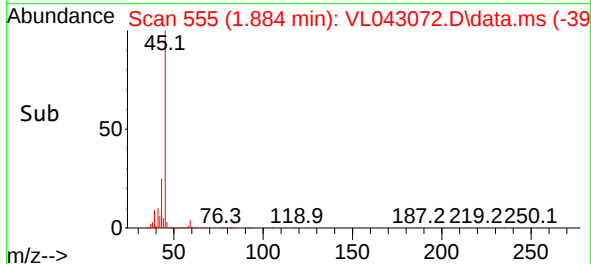
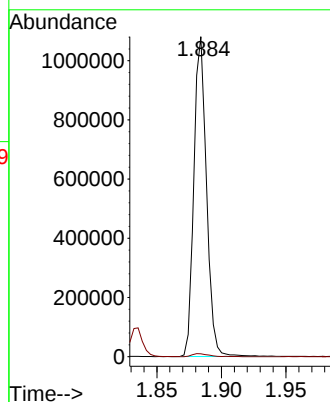
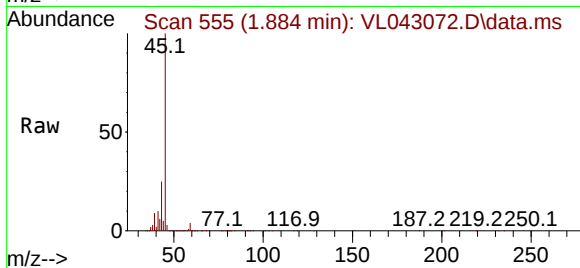
#19
Isopropyl Alcohol
Concen: 65.781 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL043072.D
Acq: 08 Oct 2025 23:16

Instrument :
MSVOA_L
ClientSampleId :
IA5

Tgt Ion: 45 Resp: 735850
Ion Ratio Lower Upper
45 100
58 1.3 42.3 63.5

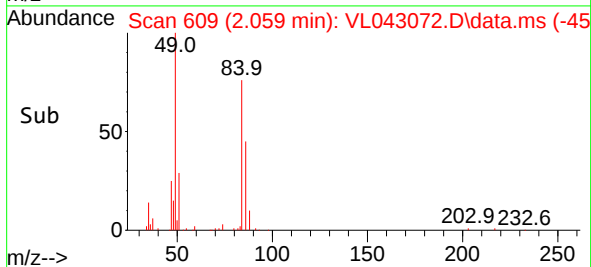
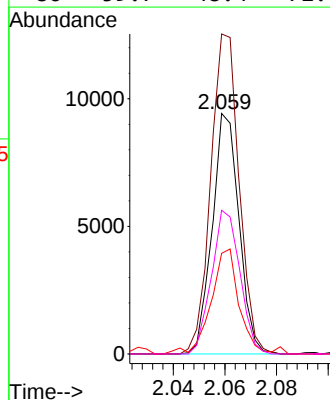
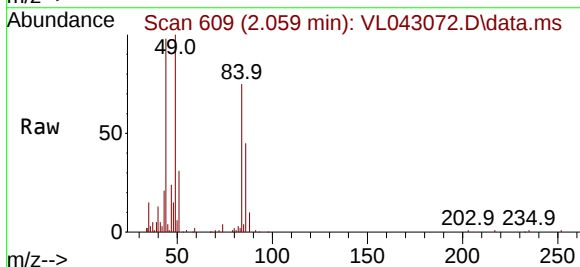
Manual Integrations
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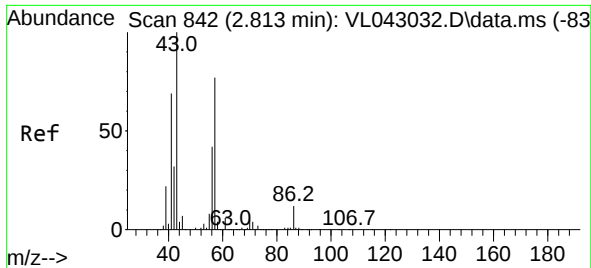
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#20
Methylene Chloride
Concen: 0.667 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.006 min
Lab File: VL043072.D
Acq: 08 Oct 2025 23:16

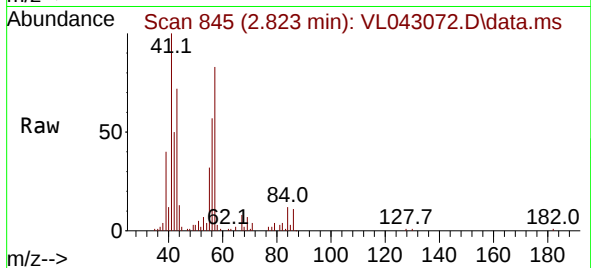
Tgt Ion: 84 Resp: 6793
Ion Ratio Lower Upper
84 100
49 133.1 112.5 168.7
51 39.4 34.2 51.2
86 59.7 48.4 72.6





#26
Hexane
Concen: 0.432 ppbv
RT: 2.823 min Scan# 842
Delta R.T. 0.010 min
Lab File: VL043072.D
Acq: 08 Oct 2025 23:16

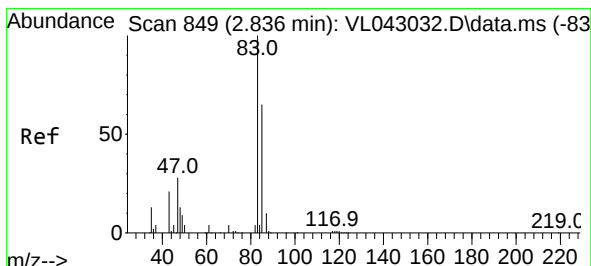
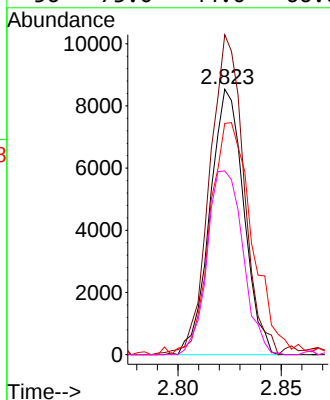
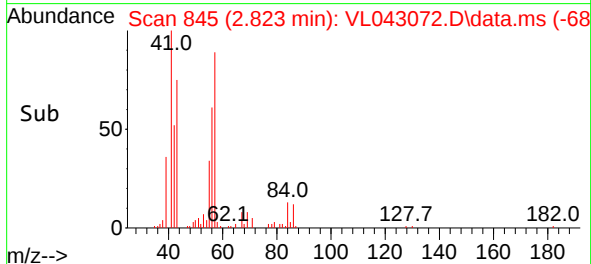
Instrument :
MSVOA_L
ClientSampleId :
IA5



Tgt Ion: 57 Resp: 9729
Ion Ratio Lower Upper
57 100
41 125.6 76.1 114.1
43 110.2 201.4 302.0
56 73.0 44.0 66.0

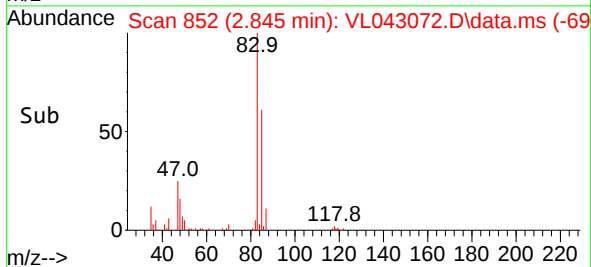
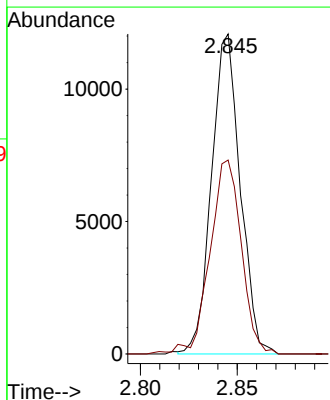
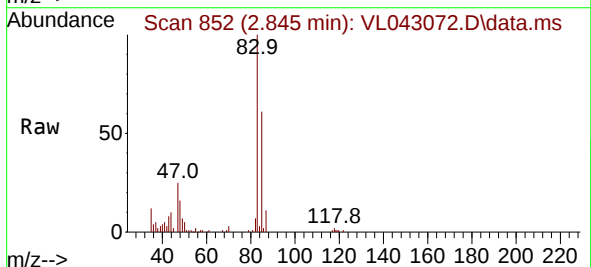
Manual Integrations
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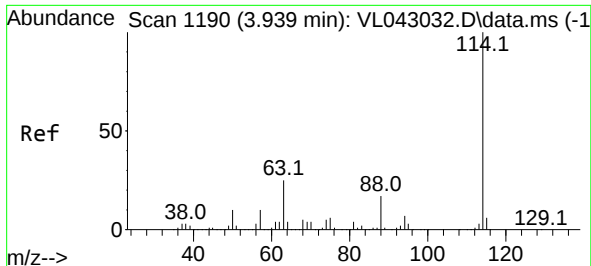
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#29
Chloroform
Concen: 0.324 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.010 min
Lab File: VL043072.D
Acq: 08 Oct 2025 23:16

Tgt Ion: 83 Resp: 12444
Ion Ratio Lower Upper
83 100
85 62.3 52.0 78.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. 0.013 min

Lab File: VL043072.D

Acq: 08 Oct 2025 23:16

Instrument :

MSVOA_L

ClientSampleId :

IA5

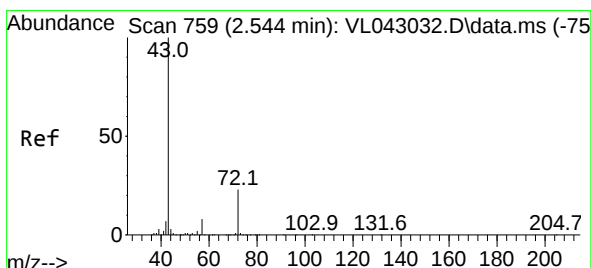
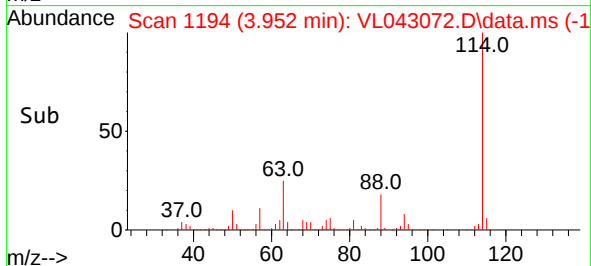
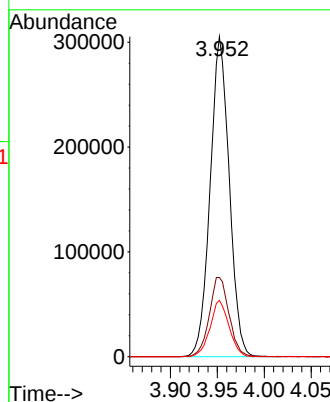
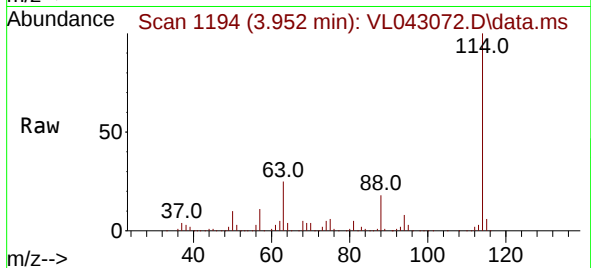
Tgt Ion:114 Resp: 430435

Ion	Ratio	Lower	Upper
114	100		
63	25.7	19.4	29.2
88	17.4	13.9	20.9

Manual Integrations

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Supervised By :Mahesh Dadoda 10/10/2025



#34

2-Butanone

Concen: 0.363 ppbv

RT: 2.557 min Scan# 763

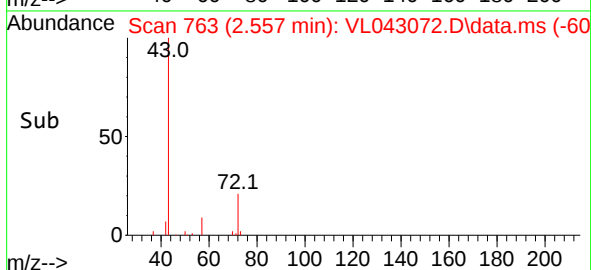
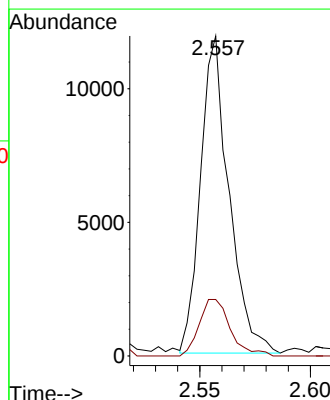
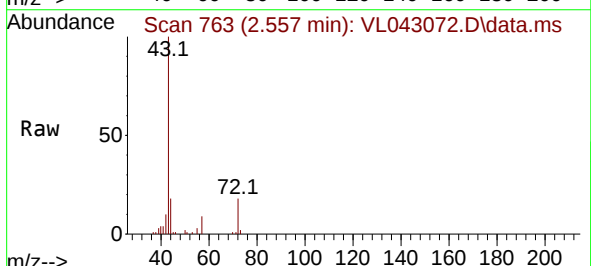
Delta R.T. 0.013 min

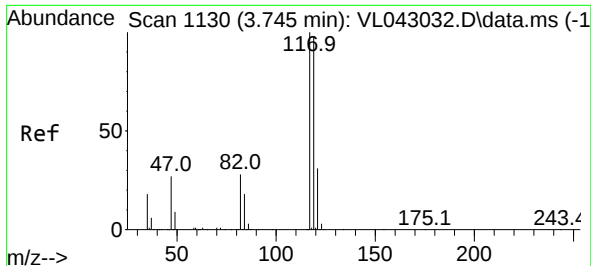
Lab File: VL043072.D

Acq: 08 Oct 2025 23:16

Tgt Ion: 43 Resp: 10611

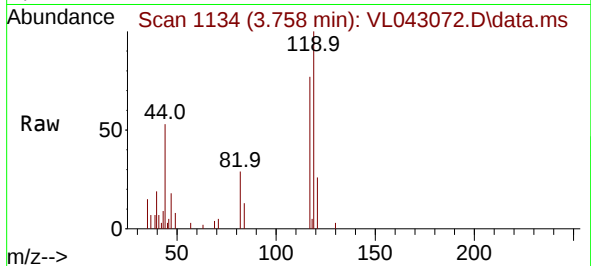
Ion	Ratio	Lower	Upper
43	100		
72	19.5	18.4	27.6





#35
Carbon Tetrachloride
Concen: 0.077 ppbv m
RT: 3.758 min Scan# 1134
Delta R.T. 0.013 min
Lab File: VL043072.D
Acq: 08 Oct 2025 23:16

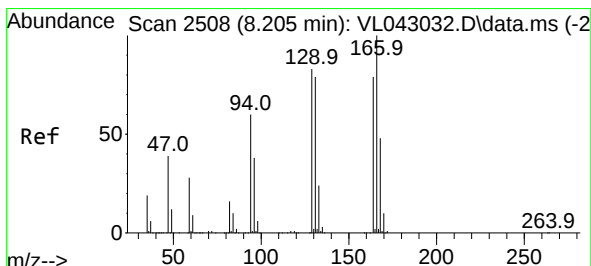
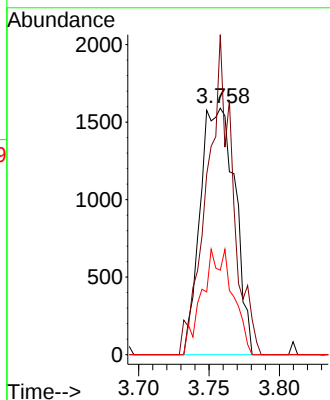
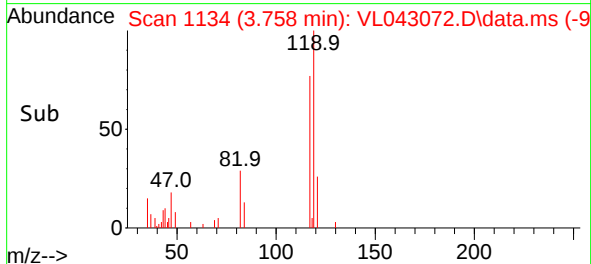
Instrument :
MSVOA_L
ClientSampleId :
IA5



Tgt Ion:117 Resp: 2739
Ion Ratio Lower Upper
117 100
119 129.8 78.2 117.4#
121 34.3 24.8 37.2

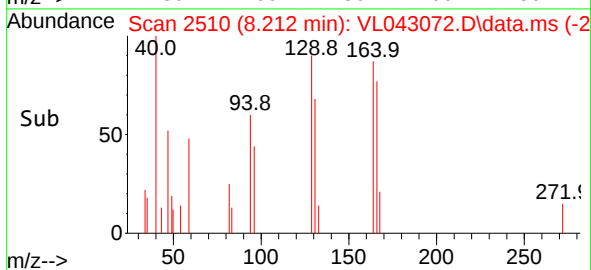
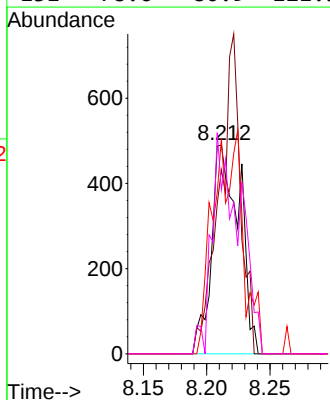
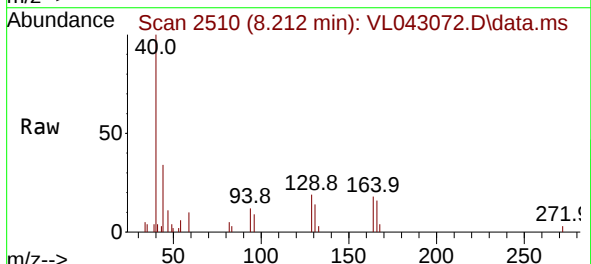
Manual Integrations
APPROVED

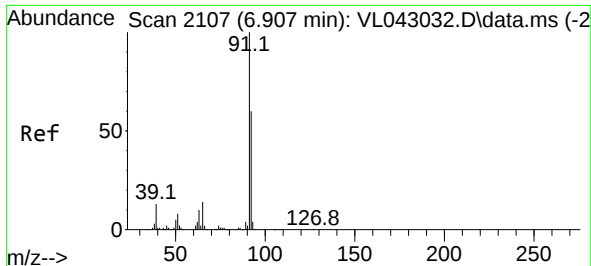
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#52
Tetrachloroethene
Concen: 0.050 ppbv m
RT: 8.212 min Scan# 2510
Delta R.T. 0.007 min
Lab File: VL043072.D
Acq: 08 Oct 2025 23:16

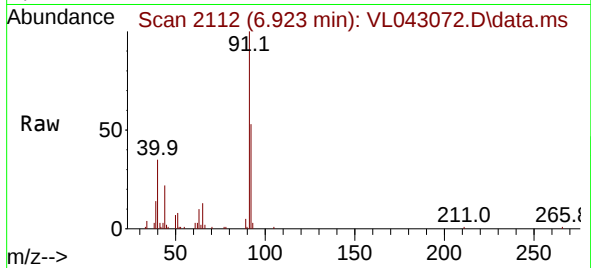
Tgt Ion:164 Resp: 756
Ion Ratio Lower Upper
164 100
166 88.2 101.8 152.8#
129 103.3 84.5 126.7
131 78.6 80.9 121.3#





#53
Toluene
Concen: 0.298 ppbv m
RT: 6.923 min Scan# 2107
Delta R.T. 0.016 min
Lab File: VL043072.D
Acq: 08 Oct 2025 23:16

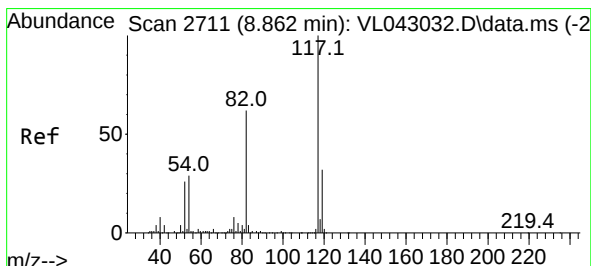
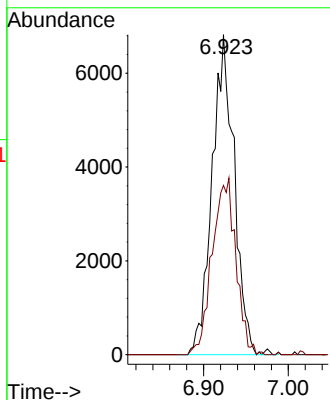
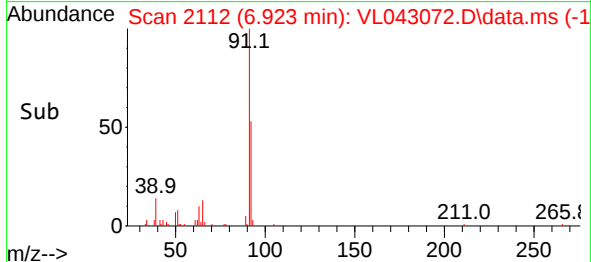
Instrument :
MSVOA_L
ClientSampleId :
IA5



Tgt Ion: 91 Resp: 1238
Ion Ratio Lower Upper
91 100
92 58.9 47.8 71.6

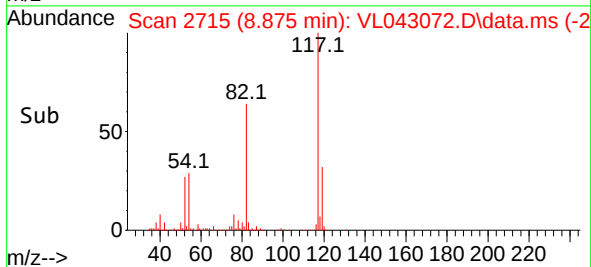
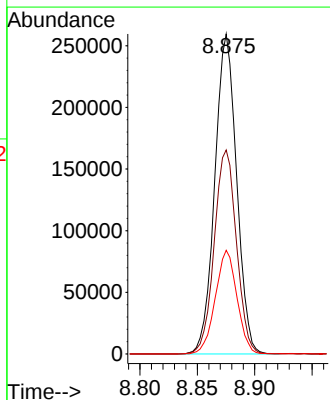
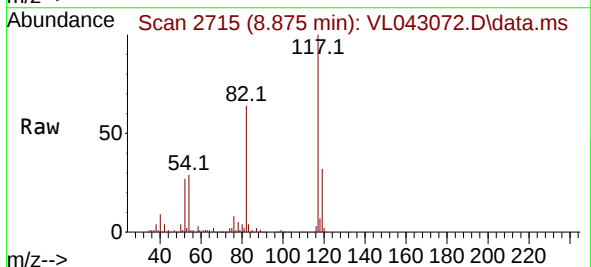
Manual Integrations
APPROVED

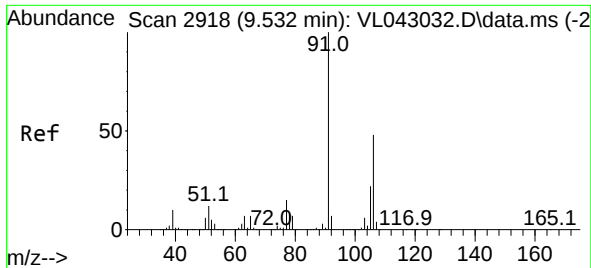
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.013 min
Lab File: VL043072.D
Acq: 08 Oct 2025 23:16

Tgt Ion:117 Resp: 343430
Ion Ratio Lower Upper
117 100
82 64.9 53.0 79.6
119 32.4 25.4 38.2





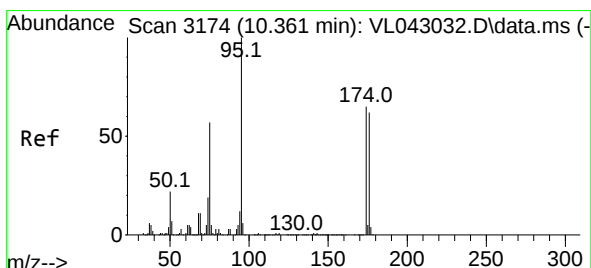
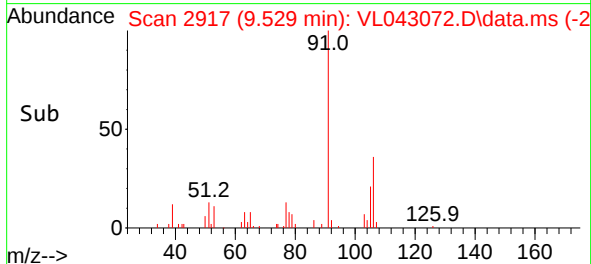
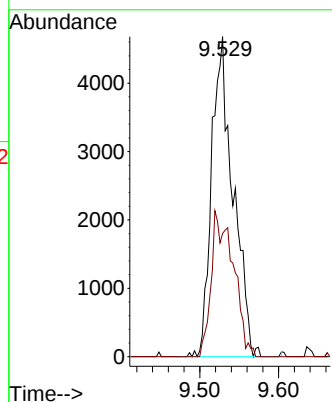
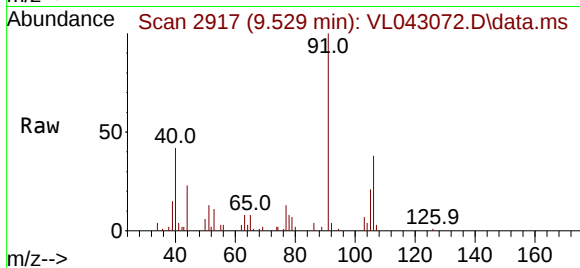
#59
m/p-Xylene
Concen: 0.197 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.003 min
Lab File: VL043072.D
Acq: 08 Oct 2025 23:16

Instrument :
MSVOA_L
ClientSampleId :
IA5

Tgt Ion: 91 Resp: 884
Ion Ratio Lower Upper
91 100
106 0.0 37.5 56.3

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.338 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. 0.010 min
Lab File: VL043072.D
Acq: 08 Oct 2025 23:16

Tgt Ion: 95 Resp: 255772
Ion Ratio Lower Upper
95 100
174 64.9 52.3 78.5
175 4.7 3.8 5.8

